

DIAGNOSES OF CYRTANDRA SPECIES, SECT. VERTICILLATAE
(GESNERIACEAE)

HAWAIIAN PLANT STUDIES 153

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The types of the following species are in the Bishop Museum, Honolulu.

Cyrtandra cinnamomea sp. nov. Novellae pilosulae sunt, foliis 3-verticillatis, petiolis 11-13 mm longis pilosulis, laminis 12-17 \times 3.7-6.4 cm oblanceolatis basi rotundata supra midnervo pilosulo infra nervis pilosulis, cymis 3 cm longis 1-floriferis, pedunculo et pedicello 6 mm longis pilosulis, calycibus 24-25 mm longis pilosulis, lobis 8-10 mm longis lanceolatis apice subulato, corollis 27 mm longis glabris. Typus: Maui I., Transect 11, P. K. Higashino 9,328.

Cyrtandra hamakuaensis sp. nov. Novellae pilosae sunt, foliis 4-verticillatis sessilibus oblanceolatis supra midnervo pilosulo infra nervis pilosulis, cymis 2.5-3 cm longis 5-7-floriferis pilosis, pedicellis 4-10 mm longis, gemmis fusiformibus 18-20 mm longis rostro 5 mm longo, calycibus 16-17 mm longis pilosis, corollis 23 mm longis glabris. Typus: Hawaii I., Paauhau 3, J. F. Rock 4,062.

Cyrtandra infrafissa sp. nov. Novellae hirsutulae sunt, foliis 3-verticillatis, petiolis 3-7 mm longis hirsutulis, laminis 15-32 \times 2.5-6.3 cm oblanceolatis acuminatis infra nervis pilosulis, cymis 3.5-4 cm longis 1-floriferis pilosulis, pedicellis 10 mm longis, calycibus 25-28 mm longis fusiformibus rostro 4-5 mm longo indiviso, corollis 30-33 mm longis glabris. Typus: Maui I., Kipahulu, B. H. Gagne 1.

Cyrtandra latior sp. nov. Novellae pilosae sunt, foliis verticillatis, petiolis 4-10 mm longis pilosis, laminis 24-30 \times 4-5 cm spatulatis acuminatis basi subcordata infra nervis pilosulis, cymis 3.5-4 cm longis 3-5-floriferis pilosis, pedicellis 2-4 mm longis, gemmis fusiformibus rostro 7 mm longo, calycibus 30 mm longis $\frac{1}{2}$ -lobatis, 4 lobis lanceolatis, corollis 30 mm longis pilosulis. Typus: Molokai I., Mapulehu, J. F. Rock 12,518.

Cyrtandra mapulehuensis sp. nov. Novellae pilosae sunt, foliis 3-verticillatis, petiolis 2-4 cm longis pilosulis, laminis 9-19 \times 4-6.2 cm ellipticis acuminatis basi cuneata et decurrenti, cymis 5 cm longis 3-floriferis pilosulis, pedicellis 10-12 mm longis, calycibus 18-19 mm longis fusiformibus in basi pilosulis $\frac{1}{3}$ lobatis, lobis 8 mm longis lanceolatis,

corollis 22-24 mm longis pilosulis. Typus: Molokai I., Mapulehu, D. Herbst 1,891.

Cyrtandra opeatos sp. nov. Novellae pilosulae sunt, foliis 3-verticillatis sessilibus, laminis 21-24 X 4.5-5 cm oblanceolatis subacuminatis supra midnervo pilosulo infra nervis pilosulis, cymis 2.5-3 cm longis 5-floriferis caulifloribus pilosulis, pedicellis 3-5 mm longis, gemmis 18-20 mm longis fusiformibus pilosulis rostro 4 mm longo, calycibus 18-19 mm longis ellipsoideis, 4 lobis 10-12 mm longis basi ovata apice subulato, corollis 20 mm longis puberulis. Typus: Hawaii I., Glenwood, O. Degener 7,682.

Cyrtandra quadrata sp. nov. Novellae pilosae sunt, foliis 4-verticillatis, petiolis 6-20 mm longis pilosulis, laminis 5-12 X 1.5-2.5 cm oblanceolatis subacuminatis infra nervis pilosis, cymis 1-floriferis pilosis, pedicellis 1-2 mm longis, gemmis 27-32 mm longis fusiformibus rostro 7-9 mm longo, corollis 24 mm longis glabris, loba infera 10 mm longa ovata. Typus: Molokai I., Wailau, H. St. John et al 23,533.

Cyrtandra quadrilobata sp. nov. Novellae pilosulae sunt foliis 3-verticillatis sessilibus, laminis 33-37 X 5.2-6.3 cm oblanceolatis acuminatis basi rotundata infra nervis pilosulis supra puberulis, cymis 2.5-3.5 cm longis 3-7-floriferis pilosulis, pedicellis 9-11 mm longis, calycibus 31 mm longis fusiformibus pilosulis rostro 5-6 mm longo 4 lobis 9-14 mm longis, corollis 25 mm longis glabris. Typus: Hawaii I., Manuka, F. R. Warshauer 1,986.

Cyrtandra sessilis sp. nov. Ramulae pilosae sunt, foliis 3-4-verticillatis 17-38 X 6-8 cm oblanceolatis sessilibus perfoliatis supra midnervo pilosulo infra nervis pilosulis, cymis 4-4.5 cm longis 7-9-floriferis pilosulis, pedicellis 5-7 mm longis, gemmis 20-21 mm longis fusiformibus rostro 3.5-5 mm longo, calycibus 20-21 mm longis puberulis tubo 10-12 mm longo 3 lobis subulatis, corollis 30 mm longis glabris tubo 20 mm longo, loba infera 9 X 8 mm suborbiculari. Typus: Molokai I., Wailau, L. Stemmermann 2,067.

Cyrtandra straminea sp. nov. Novellae pilosulae sunt, foliis 3-verticillatis, petiolis 4.5-7.5 cm longis pilosulis, laminis 9.5-18.5 X 4.3-6.8 cm ellipticis acuminatis basi cuneata supra puberulis infra pilosulis, cymis 7-10.5 cm longis 3-5-floriferis pilosulis, pedicellis 28-32 mm longis, calycibus 17-20 mm longis fusiformibus puberulis stramineis 1/3-1/2-lobatis lobis lanceolatis, fructibus 17 X 3 mm glabris. Typus: Molokai I., Mapulehu, D. Herbst 1,887.

Cyrtandra subulata sp. nov. Novellae sericeae sunt, foliis 3-verticillatis sessilibus, laminis 21-29 \times 7.2-10.3 cm oblanceolatis basi rotundata supra nervis pilosulis, cymis 5.5 cm longis 11-floriferis puberulis, pedicellis 10 mm longis, calycibus 22-28 mm longis puberulis, lobis inferis 15-17 mm longis lanceolatis subulatis, corollis 30 mm longis glabris, loba infera 12 mm diametro suborbiculari. Typus: Maui I., Hanaula, H. St. John 26,883.

Cyrtandra ternaria sp. nov. Ramulae glabrae sunt, foliis 3-verticillatis sessilibus, laminis 12-20 \times 2.7-4.4 cm oblanceolatis basi auriculata infra nervis pilosulis, cymis 1-floriferis, pedunculo 3 mm longo, pedicellis 5-7 mm longis puberulis, gemmis 22 mm longis fusiformibus rostro 4 mm longo, calycibus $\frac{1}{2}$ partitis, lobis inferis 12 mm longis lanceolatis, corollis 38-40 mm longis glabris, loba infera 9 \times 10 mm subglobosa. Typus: Molokai I., Transect 1, F. R. Warshauer 2,423.

Cyrtandra trinalis sp. nov. Ramulae glabrae sunt, foliis 3-verticillatis, petiolis 12-20 mm longis, laminis 22-35 \times 7.5-9.2 cm oblanceolatis subacuminatis supra midnervo sericeo infra nervis sericeis, cymis 4-6 cm longis 3-7-floriferis pilosulo-sericeis, pedicellis 6-14 mm longis, gemmis fusiformibus, calycibus 30 mm longis sericeis, 5 lobis 13-17 mm longis lanceolatis, corollis 35 mm longis glabris. Typus: Maui I., Nahiku, H. St. John 17,897A.

Cyrtandra waiheensis sp. nov. Novellae tomentosae sunt, foliis 4-verticillatis, petiolis 2-4.5 cm longis tomentosis, laminis 11.5-16.5 \times 1.7-2.6 cm oblanceolatis acuminatis basi decurrenti infra nervis pilosis, cymis 4-5 cm longis 1-floriferis tomentosis, pedicellis 4 mm longis, gemmis fusiformibus rostro et corpore aequantibus, calycibus 43 mm longis ad medium fissis, corollis 28 mm longis glabris. Typus: Maui I., Waihee, J. F. Rock et al.